

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

T. KAJIYAMA et al

Serial No.

Filed: December 26, 2000

For: POLYNUCLEOTIDE ASSAY APPARATUS AND
POLYNUCLEOTIDE ASSAY METHOD

PRELIMINARY AMENDMENT

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows.

IN THE CLAIMS

Please add new claims 20 - 29 as follows.

20. A polynucleotide assay apparatus characterized in that it has a polynucleotide detecting cell provided with a first plate (11) whereon a first electrode (111) to which different DNA probes (13, 14, 15, 16) are fixed in a plurality of luminous areas (3, 4, 5, 6) differing with the type of DNA probe is formed and a second substrate which is arranged opposite to said first electrode and whereon a plurality of second electrodes (113-1, 113-2) are formed opposite to said plurality of luminous areas; a voltage applying unit (44) for applying a voltage between said first electrode and said second electrode; and an optical detector (33, 34, 35, 36, 43) for trapping said target polynucleotide through hybridization between said